



Department for
Communities and
Local Government

DCLG Household Projections: Lessons Learnt and Next Steps

Bob Garland



'First' Next Steps

- 'Stage 2' constrained to the Stage 1 projections that were published in February
 - Publication date as soon
 - Exploratory work - Stage 2 method to produce 'unconstrained' projections from local authority upwards. More about household formation revealed by Census. Research report.
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- 'Next' Next Steps at End



What do the 2012 based projections show?

	2012-2037
Household growth (annual)	210,000
Household Numbers	22.3m to 27.5 m +24%
Household pop growth (annual)	335,00
Household population	52.5 m to 60.9 m +16%
Context	
Compared with recent housing supply	2013/14 137,000 net



Comparison with 2008 based household projection

25 year projection	2012 based	2008- based
Household growth –annual	210,000	232,000
Household numbers	22.3m to 27.5 m +24%	21.7m to 27.5 m + 27%
Household population	52.5 m to 60.9 m +16%	50.5 m to 59.5m +18%



Comparison 2012-based 2011 based household projections

2011-2021	2012 based	2011 based
Annual household growth	220,000	220,500
Households numbers at 2021	24,308 thousand	24,290,thousand
Increase in households	+9.89%	+9.98%
Household population – number at 2021	55,945 thousand	56,690 thousand
Increase in household population	+7.3%	+8.6%



Comparison of 2011 and 2012 based projections

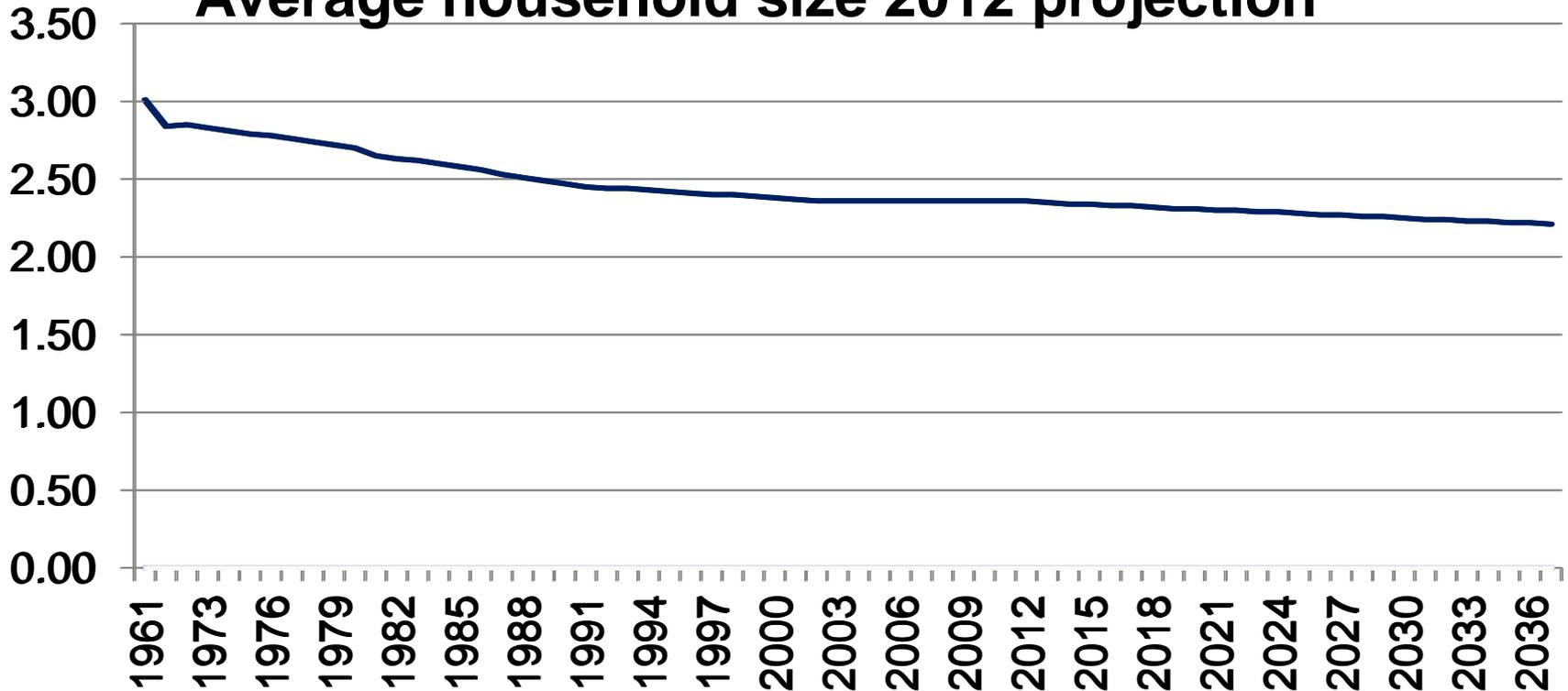
	Thousands	Thousands
Change 2011 – 2021	2012 based	2011 based
Increase in household population (000/) %	3,792 +7.3%	4,509, +8.6%
Increase in adult household population (000/) %	2,819 +6.6%	3,241 +7.6%
Increase in households(000/) %	2,186 +9.9%	2,205 +10%



Average household size :2012 based projection and estimates

Projected household growth still faster than total population growth but the effect is slowing.

Average household size 2012 projection





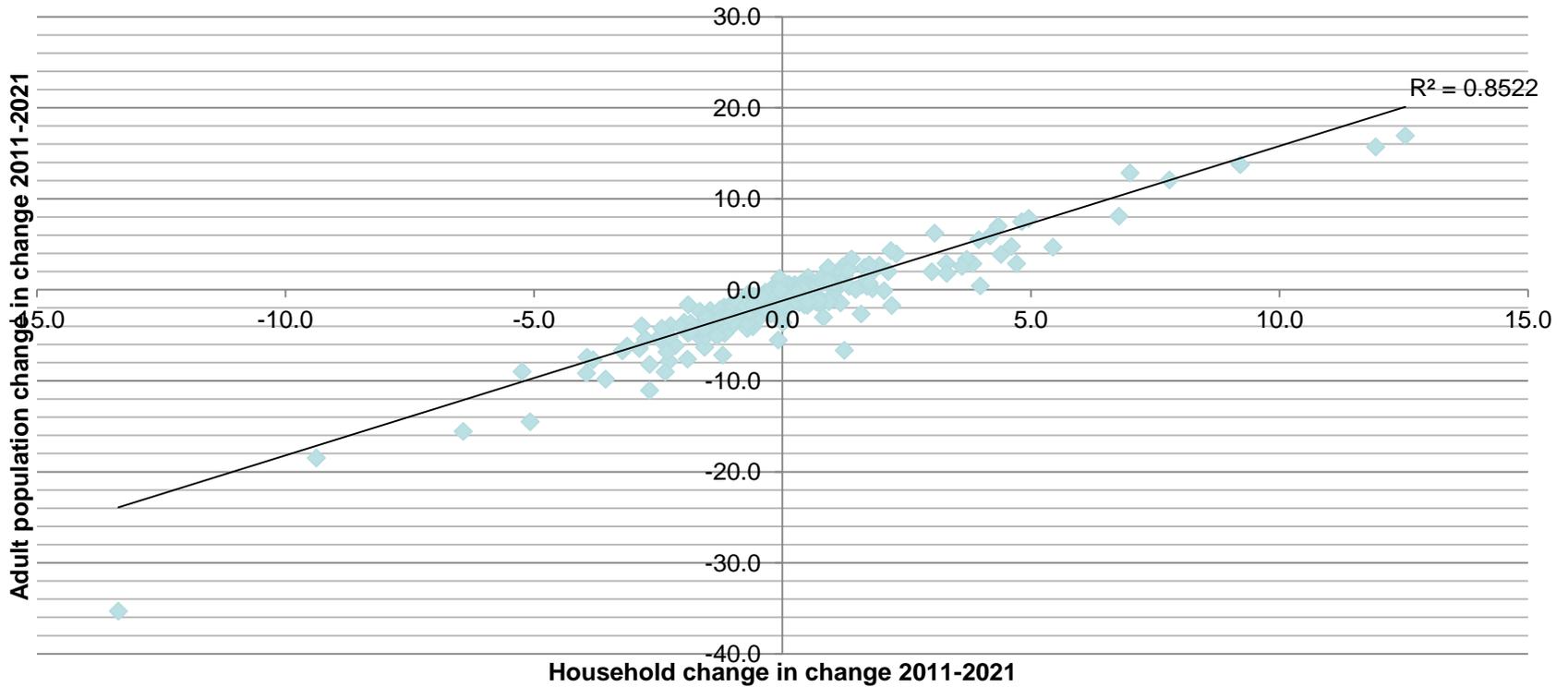
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Drivers of Household Growth

	2012 projection
Population (level and composition)	93%
Household Formation	4%
Interaction	4%



Comparison of 2011 and 2012 based projections- 'Change in change'



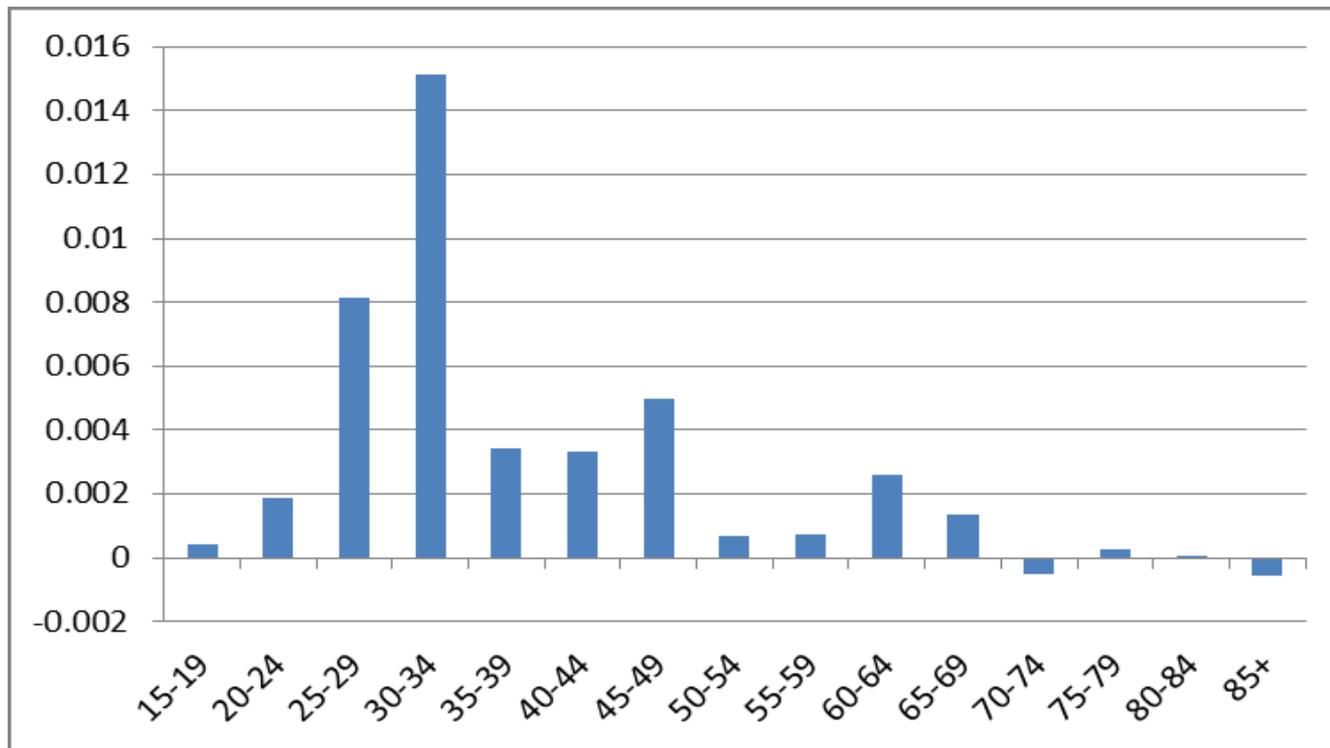


Differences between the 2011 and 2012 based household projections

- At national level, lower growth in adult population offset by higher representative rates for 'singles' (particularly females and younger males) and younger male 'couples'
- At LA level, generally strong relationship between the 'change in the change' in population
- But exceptions occur- e.g. lower population higher household growth due to various reasons:
- Differences between growth in 'total' and 'adult' population
- There may be lower growth in total adult population but offset by growth in age /sex categories with higher household formation – the detailed data for modelling will reveal this.



- Difference in the representative rates by age band in 2021 between 2012-based and 2011-based household projections





Household Representative Rates

- The 2012-based household representative rates are higher than the 2011-based representative rates by 2021 across almost all age groups, with the exception of 70-74 year olds and the 85 and over age group
- .This is a result of the changes to the estimates of the representative rates in 2011 by age, sex and relationship status, which impacts on the long-term trends. The largest changes to the household representative rates are for 25-29 and 30-34 year old age groups.



What did we learn? Stage 1: Estimating household representative rates

- Difficulties due to the 'old' definition of household representative person used in the 'Stage 1' Methodology based on the eldest male.
- Census 2001 and 2011 based on eldest economically active member
- This requires a special tables from the 2011 Census – but analysis showed inconsistencies in household representative rates between 2001 and 2011. This was particular the case for the 'previously married' and 'couples' when disaggregated by age.
- .For future rounds, could we simplify the methodology?



What did we learnt? How did we overcome the Census table problem?

Household representative rates for 2011 at England level estimated using

- aggregate household representative rates by marital status from the 2011 Census,
- household population by age, sex and marital status from the Census 2011
- data on household representative rates by age profile from the LFS and previous household projections.
- At local authority level, the household projections have been controlled to both the national projections and the aggregate household representative rate from the 2011 Census for each local authority.



What extra Census 2011 could we use?

- Institutional/ household population by age and sex
- Extra information on household representatives rates from the Census 2011 relating to aggregate household representative rates by relationship status and age where possible.
- Aggregate household representative rates at local authority level are controlled to the rate based on the total number of households divided by the total adult household population (rather than the total number of households divided to the total household population).



ONS no longer do projections? Yes model is so based on marital status categories?

- Single - not cohabiting
- Married - not cohabiting
- (other than with spouse, i.e. either living with spouse or living alone)
- Widowed - not cohabiting
- Divorced - not cohabiting
- Single - cohabiting
- Married - cohabiting (not with spouse)
- Widowed - cohabiting
- Divorced - cohabiting



England	17 household types/ 5 Census points
Scotland	7 household /types 3 Census points
Wales	12 household types/ 2 Census points but considering moving back to 3
Northern Ireland	2 Census points



- ONS Subnational Projections 2014 based due in 2016
- Review Household Projection methodology to consider:
 - Use Census definition of household representative
 - Simplify household type classification
 - Make the ‘model’ simpler and more transparent
 - Better ‘integration’ of local authority population and household projections
- Consult on methodology for 2014-based household projections
- Have methodology ready